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Oracle 1Z0-1127-25 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> Using OCI Generative AI RAG Agents Service: This domain measures the skills of Conversational AI Developers and AI Application Architects in creating and managing RAG agents using OCI Generative AI services. It includes building knowledge bases, deploying agents as chatbots, and invoking deployed RAG agents for interactive use cases. The focus is on leveraging generative AI to create intelligent conversational systems.
Topic 2	<ul style="list-style-type: none"> Using OCI Generative AI Service: This section evaluates the expertise of Cloud AI Specialists and Solution Architects in utilizing Oracle Cloud Infrastructure (OCI) Generative AI services. It includes understanding pre-trained foundational models for chat and embedding, creating dedicated AI clusters for fine-tuning and inference, and deploying model endpoints for real-time inference. The section also explores OCI's security architecture for generative AI and emphasizes responsible AI practices.
Topic 3	<ul style="list-style-type: none"> Implement RAG Using OCI Generative AI Service: This section tests the knowledge of Knowledge Engineers and Database Specialists in implementing Retrieval-Augmented Generation (RAG) workflows using OCI Generative AI services. It covers integrating LangChain with Oracle Database 23ai, document processing techniques like chunking and embedding, storing indexed chunks in Oracle Database 23ai, performing similarity searches, and generating responses using OCI Generative AI.
Topic 4	<ul style="list-style-type: none"> Fundamentals of Large Language Models (LLMs): This section of the exam measures the skills of AI Engineers and Data Scientists in understanding the core principles of large language models. It covers LLM architectures, including transformer-based models, and explains how to design and use prompts effectively. The section also focuses on fine-tuning LLMs for specific tasks and introduces concepts related to code models, multi-modal capabilities, and language agents.

Oracle Cloud Infrastructure 2025 Generative AI Professional Sample Questions (Q30-Q35):

NEW QUESTION # 30

How are prompt templates typically designed for language models?

- A. As predefined recipes that guide the generation of language model prompts
- B. To be used without any modification or customization
- C. As complex algorithms that require manual compilation
- D. To work only with numerical data instead of textual content

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Prompt templates are predefined, reusable structures (e.g., with placeholders for variables) that guide LLM prompt creation, streamlining consistent input formatting. This makes Option B correct. Option A is false, as templates aren't complex algorithms but simple frameworks. Option C is incorrect, as templates are customizable. Option D is wrong, as they handle text, not just numbers. Templates enhance efficiency in prompt engineering.

OCI 2025 Generative AI documentation likely covers prompt templates under prompt engineering or LangChain tools.

Here is the next batch of 10 questions (21-30) from your list, formatted as requested with detailed explanations. The answers are based on widely accepted principles in generative AI and Large Language Models (LLMs), aligned with what is likely reflected in the Oracle Cloud Infrastructure (OCI) 2025 Generative AI documentation. Typographical errors have been corrected for clarity.

NEW QUESTION # 31

What is the characteristic of T-Few fine-tuning for Large Language Models (LLMs)?

- A. It selectively updates only a fraction of weights to reduce the number of parameters.
- B. It selectively updates only a fraction of weights to reduce computational load and avoid overfitting.
- C. It increases the training time as compared to Vanilla fine-tuning.
- D. It updates all the weights of the model uniformly.

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation=

T-Few fine-tuning (a Parameter-Efficient Fine-Tuning method) updates a small subset of the model's weights, reducing computational cost and mitigating overfitting compared to Vanilla fine-tuning, which updates all weights. This makes Option C correct. Option A describes Vanilla fine-tuning, not T-Few. Option B is incomplete, as it omits the overfitting benefit. Option D is false, as T-Few typically reduces training time due to fewer updates. T-Few balances efficiency and performance. OCI 2025 Generative AI documentation likely describes T-Few under fine-tuning options.

NEW QUESTION # 32

Given the following code:

PromptTemplate(input_variables=["human_input", "city"], template=template) Which statement is true about PromptTemplate in relation to input_variables?

- A. PromptTemplate requires a minimum of two variables to function properly.
- **B. PromptTemplate supports any number of variables, including the possibility of having none.**
- C. PromptTemplate is unable to use any variables.
- D. PromptTemplate can support only a single variable at a time.

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation=

In LangChain, PromptTemplate supports any number of input_variables (zero, one, or more), allowing flexible prompt design. Option C is correct. The example shows two, but it's not a requirement. Option A (minimum two) is false-no such limit exists. Option B (single variable) is too restrictive. Option D (no variables) contradicts its purpose-variables are optional but supported. This adaptability aids prompt engineering.

OCI 2025 Generative AI documentation likely covers PromptTemplate under LangChain prompt design.

NEW QUESTION # 33

Which technique involves prompting the Large Language Model (LLM) to emit intermediate reasoning steps as part of its response?

- **A. Chain-of-Thought**
- B. In-Context Learning
- C. Least-to-Most Prompting
- D. Step-Back Prompting

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation=

Chain-of-Thought (CoT) prompting explicitly instructs an LLM to provide intermediate reasoning steps, enhancing complex task performance. Option B is correct. Option A (Step-Back) reframes problems, not emits steps. Option C (Least-to-Most) breaks tasks into subtasks, not necessarily showing reasoning. Option D (In-Context Learning) uses examples, not reasoning steps. CoT improves transparency and accuracy.

OCI 2025 Generative AI documentation likely covers CoT under advanced prompting techniques.

NEW QUESTION # 34

What does the Ranker do in a text generation system?

- A. It sources information from databases to use in text generation.
- B. It generates the final text based on the user's query.
- **C. It evaluates and prioritizes the information retrieved by the Retriever.**
- D. It interacts with the user to understand the query better.

Answer: C

Explanation:

Comprehensive and Detailed In-Depth Explanation=

In systems like RAG, the Ranker evaluates and sorts the information retrieved by the Retriever (e.g., documents or snippets) based on relevance to the query, ensuring the most pertinent data is passed to the Generator. This makes Option C correct. Option A is the Generator's role. Option B describes the Retriever. Option D is unrelated, as the Ranker doesn't interact with users but processes retrieved data. The Ranker enhances output quality by prioritizing relevant content. OCI 2025 Generative AI documentation likely details the Ranker under RAG pipeline components.

NEW QUESTION # 35

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